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DATE MAILED: 07/08/2004

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/642,209 08/18/2003 Shih-Yuan Yeh 1066 07/08/2004 EXAMINER Shih-Yuan Yeh YEAGLEY, DANIEL S P. O. Box No. 6-57 ART UNIT PAPER NUMBER Junghe Taipei, 235 3611 TAIWAN

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	10/642,209	YEH, SHIH-YUAN
	Examiner	Art Unit
	Daniel Yeagley	3611
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
1) Responsive to communication(s) filed on 18 August 2003.		
2a) This action is FINAL . 2b) ⊠ This action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4) Claim(s) 1 is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or election requirement.		
Application Papers		
9)⊠ The specification is objected to by the Examiner.		
10)⊠ The drawing(s) filed on <u>18 August 2003</u> is/are: a)☐ accepted or b)⊠ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a)⊠ All b)□ Some * c)□ None of:		
1.⊠ Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this National Stage		
application from the International Burea	• • • • • • • • • • • • • • • • • • • •	
* See the attached detailed Office action for a list of the certified copies not received.		
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summ Paper No(s)/Ma	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		al Patent Application (PTO-152)
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Ad	ction Summary	Part of Paper No./Mail Date 20040617

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DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because:

- a. They do not include the following reference character(s) mentioned in the description: numeral: "453" cited on page 7.
- b. They <u>include</u> the following reference character(s) not mentioned in the description: numeral "422" cited in figure 4.
- 2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the axle embedded into a gear axle must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.
- 3. Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted

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by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 5. Claim 1 is rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a gear axle being embedded into one wheel; page 5, liner10-11, does not reasonably provide enablement for an axle embedded into the gear axle as claimed in claim 1, line 9. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. The drawings only show one axle 422 extending from a gear 421 and the specification failed to disclose what applicant contends as an axle imbedded into an axle as claimed.
- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Regarding claim 1, line 8, the term "a gear axle" is objected to because it is unclear if applicant is referring to the gear axle cited on line 4 of claim 1 or if applicant is attempting to claim a second gear axle.

Regarding claim 1, line 9, the term "an axle" is objected to because it is unclear if applicant is referring to the gear axle, the extended axle or if applicant is attempting to claim a third axle.

Regarding claim 1, line 10, the term "a side wheel" is objected to because it is unclear if applicant is referring to the one wheel cited on line 7 of claim 1 or if applicant is attempting to claim a different wheel.

Regarding claim 1, line 11, the term "a spiral gear" is objected to because it is unclear if applicant is referring to the spiral gear cited on line 7 of claim 1 or if applicant is attempting to claim a second spiral gear.

Regarding claim 1, line 12, the term "the gear" is objected to because it is unclear which particular prior gear applicant is referencing.

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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9. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Memeth '583.

Nemeth shows an electric golf cart drive mechanism (figure 1) having a drive axle unit (figure 5) which is fitted to a frame 16 of a golf cart, wherein the drive axle unit includes a motor base with a casing and case cover of the motor base screwed down and fixedly locked to one side of the frame of the golf cart as seen in figure 1, a gear axle 98 that consists of an extended axle mounted on one wheel 30; such that, the axle is embedded into the one wheel whose primary usage is to singularly lodge into a side of the wheel (figure 6), a spiral gear 104 is installed in the casing with the gear axle installed in a lower part of the casing of the motor base; wherein a gear 108 operates in coordination with a pitch of the spiral gear as best understood, but failed to disclose a lubricating oil being anointed between the gear and spiral gear within the motor base casing.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have lubricated the gears with lubricating oil or an axle grease as is old and well known to one of ordinary skill in the gear related art to reduce friction and wear in a gear unit and increase efficiency.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Devirian, Jr. '941 discloses a drive mechanism having a lubricated gear train unit.

Perlowin '532, Iizuka '993, Voigt '008 and Burnside et al '106 show motor driven golf carts.

Chang '678 shows a wheel driven drive mechanism.

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11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel Yeagley whose telephone number is 703-305-0838. The examiner can normally be reached on Mon. - Fri; first Friday off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lesley D Morris can be reached on 703-308-0629. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D.Y.

LESLEY D. MORRIS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3000

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